

ADE IT Modernization Effort Update



Presented to:

Arizona Data Governance Commission

February 17, 2012

Mark T. Masterson

Chief Information Officer

Pamela Smith

Executive Director, Strategic Programs

Agenda

- SAIS RFP Requirements
- SLDS Dashboards
- Governance Standards Discussion
- CEDS/Ed-Fi Discussion and Possible Adoption
- AELAS Business Case Update
- Student-Teacher Connection Update
- Project/Budget Summary Update



Gus Felderhoff and Vince Miranda - Statêra

SAIS RFP REQUIREMENTS

SAIS Assessments (Reengineering)

- “Mapped the mess”
- Identified core functions and processes
- Understanding what SAIS needs to be and how it has to work

New concept for consideration

- SAIS RFP Requirements
 - Articulate SAIS core functions from beginning to end
 - Provide software vendors blueprint for new system
 - SAIS assessments guide the requirements process

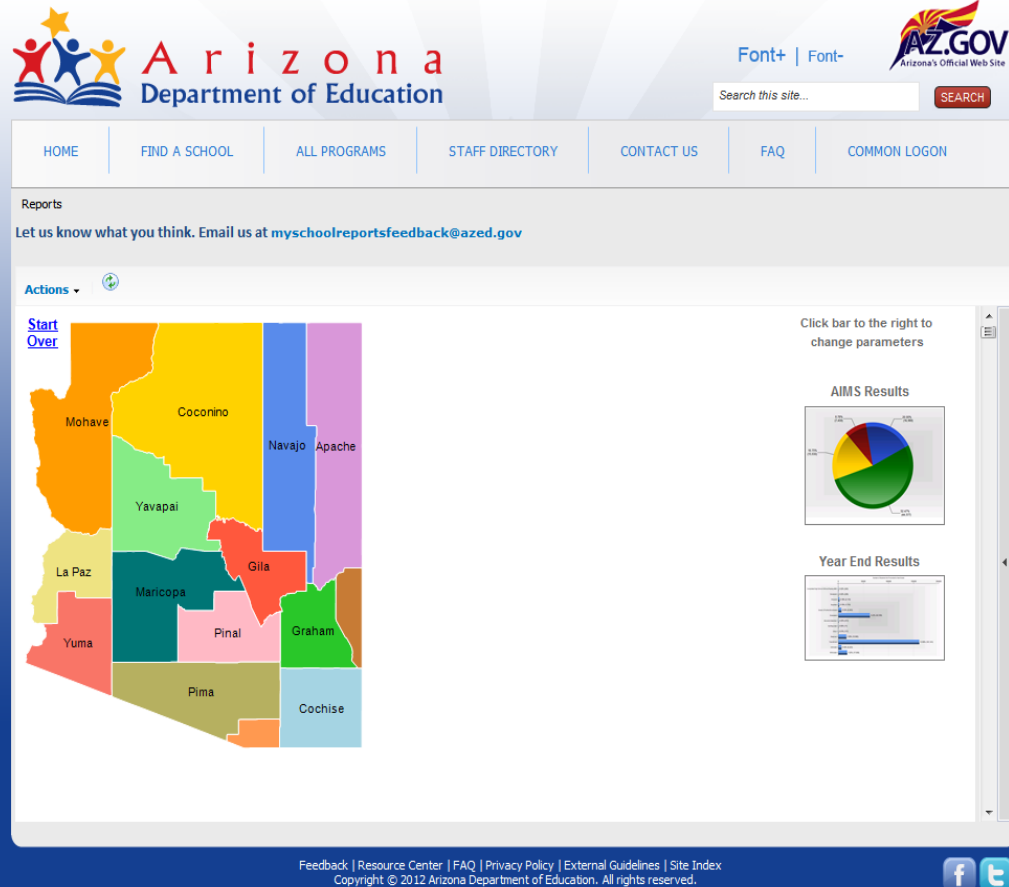
A photograph of two students, a boy and a girl, sitting at a desk in a classroom. The boy is in the foreground, looking down at a book or paper. The girl is behind him, also looking down. In the background, there is a bulletin board with various papers and a calendar.

Providing “Knock your socks off service”

SLDS DASHBOARDS

SLDS Dashboards

- Users view important information about schools and students throughout the state
- Provides fiscal year information on schools, student progress, AIMS scores and more



A woman with long brown hair is smiling and looking towards a man whose profile is visible on the left. They appear to be in a meeting or discussion. The background is a warm, orange-toned wall.

Aiden Fleming

GOVERNANCE STANDARDS

Statutory guideline development

Arizona Revised Statutes §15-249.01

Guideline	Project to meet need	Progress	Expected Completion
Managed Data Access			
Technology			
Privacy and Security			
Adequacy of Training			
Adequacy of Data Model Implementation			
Prioritization of Funding Opportunities			
Resolution of Data Conflicts			

Data Governance Standards

Arizona Revised Statutes §15-249.01

Analysis and Recommendations	ADE Initiative	Progress	Expected Completion
Control of data confidentiality and data security for stored data and data in transmission			
Access privileges and access management			
Data audit management, including data quality metrics, sanctions and incentives for data quality improvement			
Standards for stored data and data in transmission (definition, format, source, provenance, element level and contextual integrity)			
Documentation standards for data elements and systems components			
Data archival and retrieval management systems, including change control and change tracking			
Publication of standard and ad hoc reports for state and local level use on student achievement			
Publication of implementation timelines and progress			



Pamela Smith

DATA STANDARDS FOR ADE IT – CEDS AND ED-FI

The need for data standards

- Integrating various data systems
- Improve data quality across various systems
- Interoperability of data between various vendor's systems
- Standardized reporting and dashboards

CEDS

- CEDS – Common Education Data Standards
 - <http://ceds.ed.gov/>
 - National Center for Education Statistics with assistance of CEDS Stakeholder Group
 - Includes representatives from various states, districts, state higher education agencies, early childhood organizations, federal program offices

Ed-Fi

- Ed-Fi
 - <http://www.ed-fi.org/>
 - Open, XML-based data standard that integrates information from a broad range of existing sources
 - Can be sifted, analyzed and put to use every day.



Jolene Newton - LearningMate

AELAS BUSINESS CASE

Building a Business Case

- Methodical approach
 - Identify problem statement
- Analysis
 - Cost-benefit
 - Market
- Test assumptions
- Is the plan feasible?

Assumptions

- Redundant systems and equipment
 - Realize economies of scale
 - Significant cost savings
- Disparate systems in LEAs and across districts
 - Systems that don't "talk" to one another
 - Opportunity to share critical data in consistent format

Methodology

- Identified 45 representative schools
 - Governor's Office of Education Innovation
 - Superintendent Huppenthal personal contact
- Surveys, focus groups, interviews, etc.
 - Collecting data from several levels
 - Provide a market landscape (vendors, systems, costs)
- Data analysis and recommendations

A photograph of a female teacher with short brown hair, wearing a grey blazer over a green patterned shirt, leaning over a desk. She is looking down at a young boy with dark hair, who is also looking down. To the right, a young girl with blonde hair in a ponytail, wearing a red and white polka-dot shirt, is also looking down. They are in a library or classroom setting with bookshelves filled with books in the background.

Lisa Levy

RACE TO THE TOP: STUDENT-TEACHER CONNECTION PROGRAM MANAGEMENT



Pamela Smith

BUDGET UPDATE

Green projects – no intervention

- AELAS Business Case
- Identity Management/FIM
- ITIL Tool – Change Gear
- *AZ-SLDS: Course Mapping Tool*
- SAIS Assessment
- Enterprise Landscape Application Architecture

Yellow projects – proceed with caution

- ADE Financial System – Great Plains
- Program Support Office

Great Plains

Total Authorized	YTD Spend	Remaining Authorization
\$555,920	\$247,540	\$308,380

Project Overview

Tool to integrate 50+ ADE Financial Systems into 1 to improve School Payments and agency operations

Key Milestones

Milestone	Target
Configure Proposed Design in Dev	2/7/12
Solution Design Document	2/9/12
Design Review – Phase Complete	2/14/12

Key Accomplishments

Accomplishment	Target
ASET Approved Amended PIJ with Change Requests	02/06
Acceptance Criteria (Review with business week of 1/30)	02/03

Risks

Risk	Mitigation

Program Support Office	Total Authorized	YTD Spend	Remaining Authorization
	\$500,000	\$306,772	\$193,228

Project Overview

Create and implement a vendor management framework for IT program.

Develop, implement and manage communications plan for ADE IT and its various strategic and ongoing programs.

Key Milestones

Milestone	Target
Develop strategic and project controls policy	Mar/Apr 2012
Create process and procedure documentation	Mar/Apr 2012
Develop communications plan for ADE IT	Mar/Apr 2012
Create project administration policy, process and procedure documentation	Mar/Apr 2012

Key Accomplishments

Accomplishment	Target
Contract staff augmentation	Jan 2012

Risk/Mitigation

Risk	Mitigation

Yellow projects – resource request

- AZ-SLDS: Dashboards
- Application Lifecycle Management

AZ-SLDS: Dashboards		Total Authorized	YTD Spend	Remaining Authorization																
		\$192,600	\$272,515	(\$79,915)																
<h3>Project Overview</h3> <p>Visual representation of student level data</p>		<h3>Key Milestones</h3> <table><tr><th>Milestone</th><th>Target</th></tr><tr><td>SharePoint 2010 production environment completion</td><td>Jan 2012</td></tr><tr><td>Releasing first phase dashboards</td><td>Jan 2012</td></tr></table>			Milestone	Target	SharePoint 2010 production environment completion	Jan 2012	Releasing first phase dashboards	Jan 2012										
Milestone	Target																			
SharePoint 2010 production environment completion	Jan 2012																			
Releasing first phase dashboards	Jan 2012																			
<h3>Key Accomplishments</h3> <table><tr><th>Accomplishment</th><th>Target</th></tr><tr><td>Final stages of outdated SharePoint decommissioning completed</td><td>Dec 2011</td></tr><tr><td>New SharePoint environment designed to require little development for future dashboards</td><td>Dec 2011</td></tr><tr><td>Developed best practices and style guides</td><td>Dec 2011</td></tr></table>		Accomplishment	Target	Final stages of outdated SharePoint decommissioning completed	Dec 2011	New SharePoint environment designed to require little development for future dashboards	Dec 2011	Developed best practices and style guides	Dec 2011	<h3>Risk/Mitigation</h3> <table><tr><th>Risk</th><th>Mitigation</th></tr><tr><td>Tight schedule with aggressive completion dates for first phase</td><td>Timelines adjusted</td></tr><tr><td>Business requirements may not match current level of available data</td><td>Client review</td></tr><tr><td>Budget estimate did not include integration</td><td>Change request</td></tr></table>			Risk	Mitigation	Tight schedule with aggressive completion dates for first phase	Timelines adjusted	Business requirements may not match current level of available data	Client review	Budget estimate did not include integration	Change request
Accomplishment	Target																			
Final stages of outdated SharePoint decommissioning completed	Dec 2011																			
New SharePoint environment designed to require little development for future dashboards	Dec 2011																			
Developed best practices and style guides	Dec 2011																			
Risk	Mitigation																			
Tight schedule with aggressive completion dates for first phase	Timelines adjusted																			
Business requirements may not match current level of available data	Client review																			
Budget estimate did not include integration	Change request																			

Application Lifecycle Management	Total Authorized	YTD Spend	Remaining Authorization
	\$109,725	129,150	(\$19,425)

Project Overview

Application Lifecycle Management
process Phase 1 – Analysis

Key Milestones

Milestone	Target
Phase 2	Mar/Apr 2012
Develop new TFS environment to continue implementation of modernization efforts	Jan 2012

Key Accomplishments

Accomplishment	Target
Requirements Template Definition	Dec 2011
Delivery Process implementation	Dec 2011
Project/Task Tracking with TFS	Dec 2011

Risks/Mitigation

Risk	Mitigation
Unstable TFS Environment	Implement Phase 2
Partial roll-out of Delivery Path processes	Implement Phase 2
Development resource experience level	Development of training/ mentoring program

Questions



Contact

Lisa M Blyler

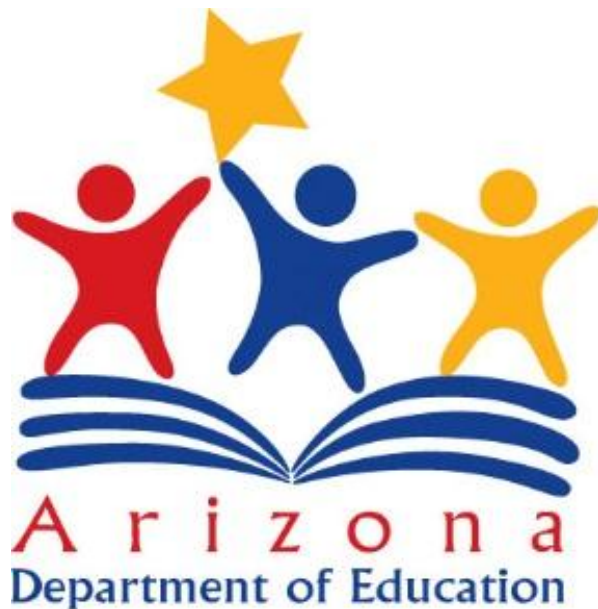
Business Liaison

(602) 542-3144

Lisa.Blyler@AZED.gov

Green Projects

For review only



AELAS Business Case	Total Authorized	YTD Spend	Remaining Authorization
	\$826,720	\$98,837	\$ 727,833

Project Overview

Conduct market research and feasibility study for the new statewide data system

ADE leadership and key stakeholders promote program participation with outreach campaign

Key Milestones

Milestone	Target
Execute Outreach Campaign	Jan-Feb 2012
Distribute Product Survey	Jan-Feb 2012
Release Shared Services RFI	Feb 2012
Focus Group Facilitations	Feb-May 2012
Business Case	Jun 2012
Release RFPs	Jun-Sep 2012

Key Accomplishments

Accomplishment	Target
Project schedule, budget, plan, and charter	Nov-Dec 2011
Secure project resources, draft marketing outreach campaign, and survey	Jan 2012
Draft Shared Services RFI	Jan 2012
Execute outreach campaign	Feb 2012

Risk/Mitigation

Risk	Mitigation
Team is devoted to MCESA for 7 weeks	Overlap between programs is projected to be high
District participation	Execute market outreach campaign and leverage partnerships with key stakeholders
Vendor participation	Gauge vendor interest with RFIs

Identity Management/FIM	Total Authorized	YTD Spend	Remaining Authorization
	\$800,000	\$178,881	\$ 621,119

Project Overview

Establish and implement an identity management solution providing a single sign on as well as increased system security

Key Milestones

Milestone	Target
Complete Business Requirements Document	Feb 2012
Internal Training	Feb 2012
Design target	Mar 2012
Build target	May 2012
Deploy Phase 1 target	Jun 2012

Key Accomplishments

Accomplishment	Target
Business Requirements 75% complete	
Project artifacts are in final review stages	Dec 2011
Active Directory clean up complete and new policies have been developed	Dec 2011

Risk/Mitigation

Risk	Mitigation
Common Logon applications require modification to support single sign on goal	Review with clients
Application challenges associated with age and unsupported, antiquated technology	Detailed review process developed

ITIL Tool – Change Gear		Total Authorized	YTD Spend	Remaining Authorization														
		\$110,830	\$110,380	\$ 450														
<div>Project Overview</div> <div>Help Desk Ticketing Tool – Hardware</div>		<div>Key Milestones</div> <table><tr><th>Milestone</th><th>Target</th></tr><tr><td>Internal Rollout</td><td>Mar 2012</td></tr><tr><td>External Rollout</td><td>Mar/Apr 2012</td></tr></table>			Milestone	Target	Internal Rollout	Mar 2012	External Rollout	Mar/Apr 2012								
Milestone	Target																	
Internal Rollout	Mar 2012																	
External Rollout	Mar/Apr 2012																	
<div>Key Accomplishments</div> <table><tr><th>Accomplishment</th><th>Target</th></tr><tr><td>Project underway</td><td>Nov 2011</td></tr><tr><td>DEV environment up and running</td><td>Dec 2011</td></tr><tr><td>Software purchased</td><td>Jan 2012</td></tr><tr><td>Enhancements and customization effort underway</td><td>Jan 2012</td></tr></table>		Accomplishment	Target	Project underway	Nov 2011	DEV environment up and running	Dec 2011	Software purchased	Jan 2012	Enhancements and customization effort underway	Jan 2012	<div>Risk/Mitigation</div> <table><tr><th>Risk</th><th>Mitigation</th></tr><tr><td>Behind schedule on incident management process and sub-process definitions</td><td>Mitigation plan under review</td></tr></table>			Risk	Mitigation	Behind schedule on incident management process and sub-process definitions	Mitigation plan under review
Accomplishment	Target																	
Project underway	Nov 2011																	
DEV environment up and running	Dec 2011																	
Software purchased	Jan 2012																	
Enhancements and customization effort underway	Jan 2012																	
Risk	Mitigation																	
Behind schedule on incident management process and sub-process definitions	Mitigation plan under review																	

Course Mapping Tool	Total Authorized	YTD Spend	Remaining Authorization
	\$199,500	\$ 0	\$199,500

Project Overview

Federal/State Mandates for a standardized method of reporting courses. Buy and integrate a web based software tool for the course mapping activity.

Key Milestones

Milestone	Target
Received and reviewed RFP response for Course Mapping software	Oct 2011
DAR completed and approved	Oct 2011

Key Accomplishments

Accomplishment	Target
Define statewide course mapping requirements and procure a statewide solution	Jan 2012
RFP responses received and reviewed	Oct 2011

Risk/Mitigation

Risk	Mitigation
Reviewing options to combine Course Mapping and Student Teacher Connection (STC) projects for a cost savings of rollout costs	Allow combined work effort to focus on the complete solution for Federal requirements

SAIS Assessment	Total Authorized	YTD Spend	Remaining Authorization
	\$1,497,726	\$981,648	\$ 516,078

Project Overview

Student Accountability Information System “re-engineering” and optimizing system performance

Key Milestones

Milestone	Target
Payments application/process identification	Feb 2012
Aggregation assessment	Jan 2012
Assessment completion and Close Out	Mar 2012

Key Accomplishments

Accomplishment	Target
Transaction process assessment	Jan 2012
Detailed assessment for Integrity and proof of concept	Nov 2011
Payments detailed assessment	Feb 2012

Risks/Mitigation

Risk	Mitigation
Complex technical manual and applications processes	Review with clients
Existing systems are prone to human/manual error and inability to separate one 'Module' from the rest of the system in a meaningful way	Detailed review process developed
Turn over in subject matter experts	Review with clients

Enterprise Architecture	Total Authorized	YTD Spend	Remaining Authorization
	\$650,000	\$ 0	\$ 650,000

Project Overview

Overall improved IT landscape guided by governance, roadmaps, SLAs, and documentation

Align ADE Business and IT units for planning and execution

Completion of project in Oct 2012

Key Milestones

Milestone	Target
Scope project phases and schedule; create project charter	Feb 2012
Resource project	Feb 2012
Define Architecture Vision	Mar 2012

Key Accomplishments

Accomplishment	Target
Define high-level project overview, timeframe, and budget	Jan 2012

Risk/Mitigation

Risk	Mitigation

Summary of ADE IT Modernization Budget Requests

Project	Approved Budget (as of Jan 2012)	YTD Spend (as of Jan 2012)	New Resource Request	Total Remaining Authorization	Forecasted Spend thru FY12	Forecasted Year End Balance	On time	On Budget
AELAS - Business Case	\$ 826,720	\$ 98,837	\$ 0	\$ 272,833	\$ 826,720	\$ 0	Y	Y
Identity Management System (FIM)	\$ 800,000	\$ 209,756	\$ 0	\$ 590,244	\$ 645,196	\$ 154,804	Y	Y
ITIL Tool (ChangeGear)	\$ 110,830	\$ 110,380	\$ 0	\$ 450	\$110,380	\$ 450	Y	Y
AZ-SLDS: State Dashboard	\$ 192,600	\$272,515	\$ 225,000	(\$ 79,915)	\$ 391,137	(\$ 198,537)		
Course Mapping	\$ 199,500	\$ 0	\$ 0	\$ 199,500	\$ 0	\$ 199,500	Y	Y
ADE Financial System: Great Plains	\$ 555,920	\$ 247,540	\$ 0	\$ 308,380	\$ 677,295	(\$ 121,375)	Y	Y
SAIS Assessment	\$1,497,726	\$ 981,648	\$ 0	\$ 516,078	\$1,207,426	\$ 290,300	Y	Y
ALM	\$ 109,725	\$129,150	\$ 20,000	(\$ 19,425)	\$ 123,600	(\$ 13,875)	Y	
Program Support Office	\$ 500,000	\$ 306,772	\$ 0	\$ 193,228	\$ 707,932	(\$ 207,932)	Y	Y
Enterprise Architecture	\$ 650,000	\$ 0	\$ 0	\$ 650,000	\$ 650,000	\$ 0	Y	Y
Total Authorization Thru 1/31/2012	\$ 5,443,021	\$ 2,356,598	\$ 245,000	\$ 3,086,423	\$5,739,136	\$ 403,385		
Total AELAS Authorization	\$6,600,000	\$4,243,402		\$3,513,577	\$ 860,864			